User Manual and Parts Book

Turf-Stripper
Model 1200/2000

Serial number:

Translation of the original operating instructions

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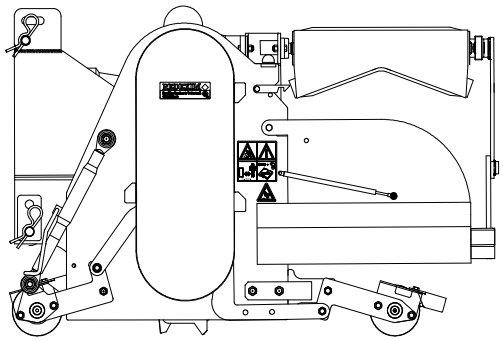
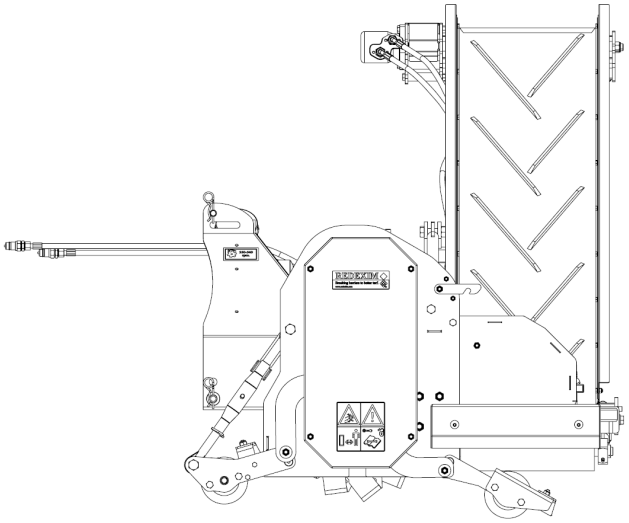




ATTENTION:
IT IS OF THE UTMOST IMPORTANCE TO READ THIS USER MANUAL CAREFULLY PRIOR TO USING THE TURF-STRIPPER IN ORDER TO USE THE MACHINE SAFELY AND TO OBTAIN THE BEST RESULTS.

1203 English 953.120.000

FOREWORD

Congratulations on your Turf-Stripper purchase! For safe and long-lasting operation of this Turf-Stripper, it is necessary to read and to understand this user manual.
It is impossible to work safely with this machine *without* complete knowledge of its content.

The Turf-Stripper is not a machine that works independently. It is the user's responsibility to use the correct tractor. The user must also check the tractor/Turf-Stripper combination on safety aspects such as noise level, user instructions and risk analysis.

The following pages deal initially with the general safety instructions. Every user should know these safety instructions and apply them. At the end of this page, a registration card is inserted. This registration card should be returned to enable us to deal with potential future claims.

This user manual lists many instructions that are numbered in sequence. You should follow this sequence. A ⚠ is an indication of a safety instruction. A ☞ means a tip and/or note.

All information and technical specifications provided at the moment that this document is published are the most recent ones. Design specifications may be changed without prior notice.

This document is a translation of the original operating instructions.
Upon request, the original operating instructions are available in Dutch.

WARRANTY CONDITIONS

WITH DELIVERY THIS TURF-STRIPPER IS GUARANTEED AGAINST MATERIAL DEFECTS. THIS WARRANTY IS VALID FOR A PERIOD OF 12 MONTHS FROM THE PURCHASE DATE. TURF-STRIPPER WARRANTIES ARE SUBJECT TO THE 'GENERAL CONDITIONS FOR SUPPLY OF PLANT AND MACHINERY FOR EXPORT, NUMBER 188' THAT ARE PUBLISHED UNDER THE AUSPICES OF THE UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE.

REGISTRATION CARD

For your own information, fill in the table below:

Serial number of the machine	
Dealer name	
Date of purchase	
Remarks	

SAFETY INSTRUCTIONS

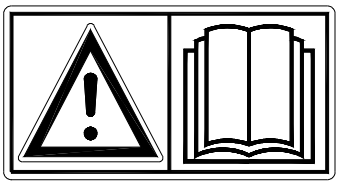


Figure 1

The Turf-Stripper is designed for safe use. This can only be achieved if you completely follow the safety instructions described in this manual.
Read and understand (Figure 1) the manual *before* you start using the Turf-Stripper.
If the machine is not used as described in this manual, this can result in injuries and/or damage to the Turf-Stripper.

1. The user must be an expert in using the machine. The machine should be professionally adjusted for cultivating the subsoil.

   The manufacturer will not accept any liability for unprofessional use and its resulting damage. All risks occurring with this are entirely at the expense of the user. Following the use, maintenance and repair instructions prescribed by the manufacturer is also considered professional use of this machine.

   Inspect the area to be treated *before* using the Turf-Stripper.
   Remove loose obstacles and avoid irregularities.

2. The Turf-Stripper is manufactured according to the latest technical understanding and is safe to use.

   When unskilled people use, maintain or repair the machine, this could result in injuries to the user *and* to third parties. **This must be avoided**!

   Always use the Turf-Stripper in combination with the correct tractor as described in the technical data.

3. All persons assigned to operate, maintain and repair the Turf-Stripper by the owner must completely read and understand the operation manual and in particular the chapter of **Safety Instructions**.

   The user is responsible for a **safe Tractor/Turf-Stripper combination**. **This entire combination must be tested** for noise, safety, risk and user friendliness. User instructions should also be drafted.

4. The user is obliged to check the Turf-Stripper for **visible damage and defects** before using the Turf-Stripper.
   Modifications to the Turf-Stripper (including its operations) that have a negative impact on safety must be rectified immediately.
   For safety reasons it is in principle not permitted to make changes or adjustments to the Turf-Stripper (except those approved by the manufacturer).

   If **modifications** to the Turf-Stripper have been made, then the current CE marking is cancelled. The person that has made these modifications has to apply for a new **CE marking himself**.
   Check the Turf-Stripper for loose bolts, nuts and components *before* every operation.

   If present, check the hydraulic pipelines regularly and replace these when the hydraulic pipelines are damaged or appear old. The pipelines that are replaced should comply with the technical requirements of the manufacturer.

If a hydraulic installation is present, you should **always** make it pressure-free *before* working on this installation.

NEVER use the Turf-Stripper in the absence of the safety stickers.

NEVER crawl under the Turf-Stripper.
If necessary, tilt the Turf-Stripper.

NEVER step off the tractor while the motor is running.

In case of maintenance, adjusting and repairs, it is necessary to block the Turf-Stripper in order to prevent sinking away, driving off and/or sliding off.

Always switch off the tractor motor, take the tractor's key out off the ignition and disconnect the PTO in case of maintenance, adjusting and repairs (Figure 2).

Figure 2

With regards to the safety of the machine and the user, use only original Turf-Stripper parts for maintenance and repairs.

Only authorised technical personnel may carry out repairs to the Turf-Stripper**.**

Keep a record of the repair activities.

5. The general applicable health & safety (Dutch: ARBO) regulations must also be followed in addition to the instructions in this user manual.

   Relevant traffic regulations also apply in case of using public roads.

   Transporting persons is not permitted!

   Do not use the Turf-Stripper in the dark, in heavy rain/storm or on slopes with an angle larger than 20 degrees.

6. All persons that are going to operate the Turf-Stripper must be familiar with all the functions and control elements of the Turf-Stripper *before* starting any work activities.
   Attach the Turf-Stripper to the towing vehicle according to the regulations.
   (Danger of injuries!)
   Check whether you have a clear field of vision – both close by and far away – *before* you depart.

   Safety stickers with an identical meaning are attached to the rear cover (Figure 5 and 6) and to both sides (Figure 2, 3 and 4) of the Turf-Stripper. These safety stickers must

always be clearly visible and legible and must be replaced if they have become damaged.

During operation, **NO persons without the proper protection gear are allowed within the danger zone** of the Turf-Stripper, because there is danger of physical injuries caused by flying particles or substances (Figure 3).

Figure 3

Figure 4

Keep a distance of minimum 4 metres! (Figure 4)

The rear cover must always be closed and undamaged while operating the machine! (Figure 5)

BE CAREFUL not to get any parts of your body jammed! (Figure 6)

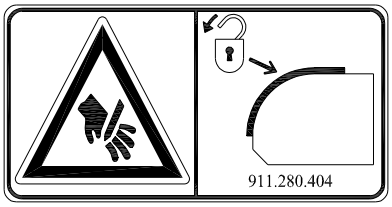


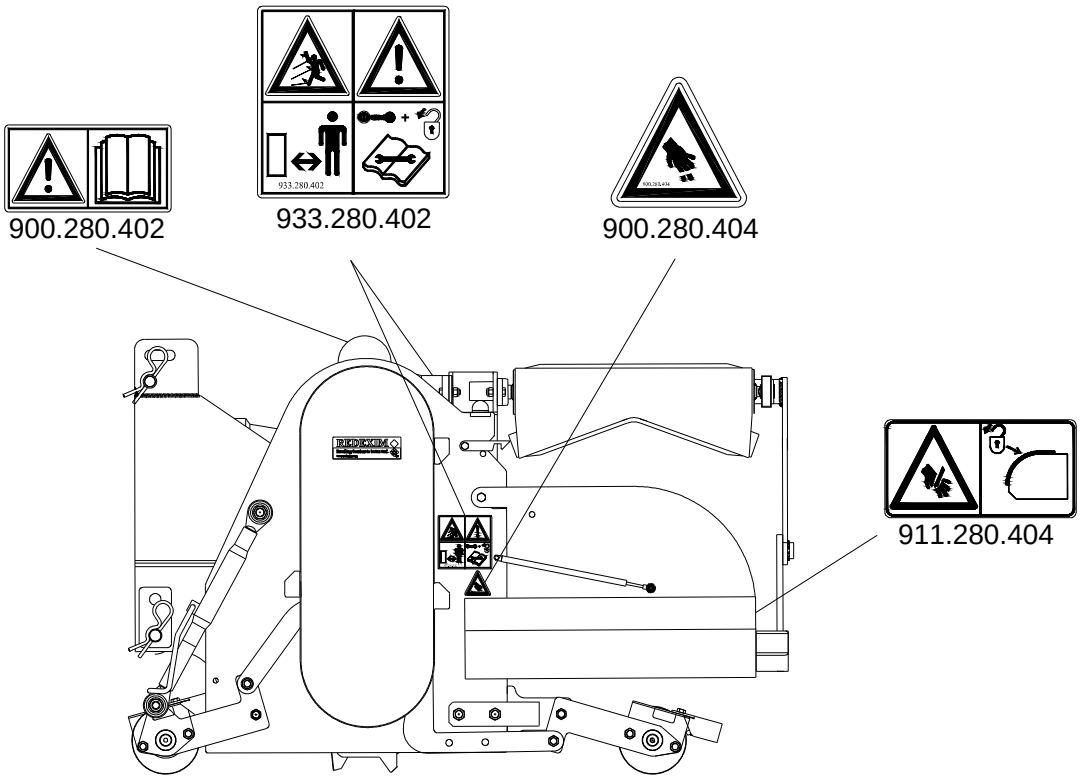
Figure 5

Figure 6

Pay attention to the permitted lifting capacity of the towing vehicle.

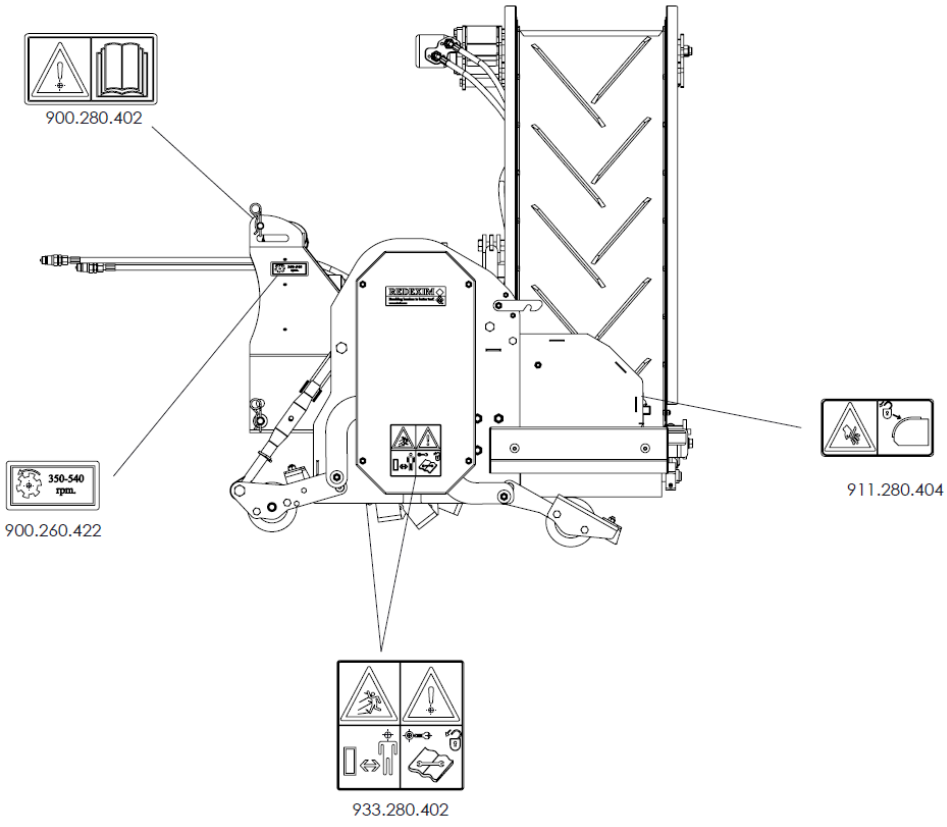
Dress appropriately. Wear sturdy shoes with steel toecaps, long trousers and tie up long hair. Do not wear loose clothing.
Use the proper personal protection gear according to the applicable health & safety (Dutch acronym: ARBO) and safety regulations.

7. Location of the safety stickers (Figure 7)



TS 2000 Fig. 7

Used oil/grease is harmful to the environment. Dispose of these substances according to the regulations that apply in your location.



TS 1200 Fig. 7b

CE

EU DECLARATION

We – **Redexim BV, Utrechtseweg 127, 3702 AC Zeist, Holland** – declare entirely under our own responsibility that the product

TURF-STRIPPER WITH A MACHINE NUMBER AS INDICATED ON THE MACHINE AND INDICATED IN THIS MANUAL

to which this declaration refers, complies with stipulation of the 2006/42/EC machine directive.

Zeist, 26.07.11

A.C. Bos
Manager Operations & Logistics
Redexim Holland

TABLE OF CONTENTS

WARRANTY CONDITIONS 2
REGISTRATION CARD 2
SAFETY INSTRUCTIONS 3
EU DECLARATION 7
1.0 TECHNICAL DATA 9
2.0 GENERAL DESCRIPTION 9
3.0 FIRST INSTALLATION – TAKING THE MACHINE OFF THE PALLET 10
4.0 ATTACHING THE MACHINE TO THE TRACTOR 12
5.0 THE POWER TAKE-OFF (PTO) 13
5.1 LENGTH OF THE PTO 13
5.2 USING THE PTO 13
5.3 SLIP COUPLING INFORMATION AND MAINTENANCE 14
6.0 ADJUSTING THE WORKING DEPTH 15
7.0 TRANSPORTING THE TURF-STRIPPER 15
8.0 DRIVING SPEED 16
9.0 USING THE TURF-STRIPPER 16
10.0 START/STOP PROCEDURE 16
11.0 DETACHING THE TURF-STRIPPER 17
12.0 TROUBLE SHOOTING (PROBLEM ANALYSIS) 18
13.0 MAINTENANCE 19
13.1 LUBRICATING POINTS 20
13.2 ADJUSTING THE TENSION OF THE V-BELTS 22
14.0 OPTIONAL: SCARIFY KNIVES 23

1.0 TECHNICAL DATA

	2000	1200
Working width	2.0m (79”)	1,2m (49,2”)
Working depth	Up to 50mm (2”)	Up to 50mm (2”)
Working speed	The working speed depends on the conditions and the required result. It is maximum 3 km/h (1.8 mph).	The working speed depends on the conditions and the required result. It is maximum 3 km/h (1.8 mph).
Weight in kg	1,250 kg (2,756 lbs)	570 Kg (1257lbs)
Three-point connection	Cat. 2	Cat 1
Gearbox oil to be used	SAE 140	SAE 140
Bearing grease to be used	EP2	EP2
Number of cutter knives per disk	4	4
Number of disks	19	14
Recommended tractor	40 - 50 HP	30 - 40 HP
Minimum lift capacity of the tractor	1,450 kg (3197lbs)	775 kg (17,9lbs)
Hydraulic connections of the tractor	2x double-acting valves	2x double-acting valves
PTO revs	540 rpm	540 rpm
Standard items	PTO with slip coupling Cutter knives	PTO with slip coupling Cutter knives
Optional	Scarify knives	Scarify knives

2.0 GENERAL DESCRIPTION

The Turf-Stripper is a processing machine for cutting and transporting the upper layer of ground.

3.0 FIRST INSTALLATION – TAKING THE MACHINE OFF THE PALLET

The machine is placed vertically on the pallet. To remove the pallet and to place the machine horizontally on the ground, take the following steps (see Figure 8):

⚠ **NEVER crawl under the machine!**

1. Attach a cable to the lifting eyes on both sides of the machine.

   ⚠ **Make sure that the cable/crane/lift can hoist minimum twice the weight of the machine. (See Chapter 1.0 'Technical Data' for the weight details.)**

2. Lift the machine including the pallet of approx. 50 mm (2") off the ground.
3. Remove the pallet by removing the three-point pins.

   ⚠ **NEVER crawl under the machine!**

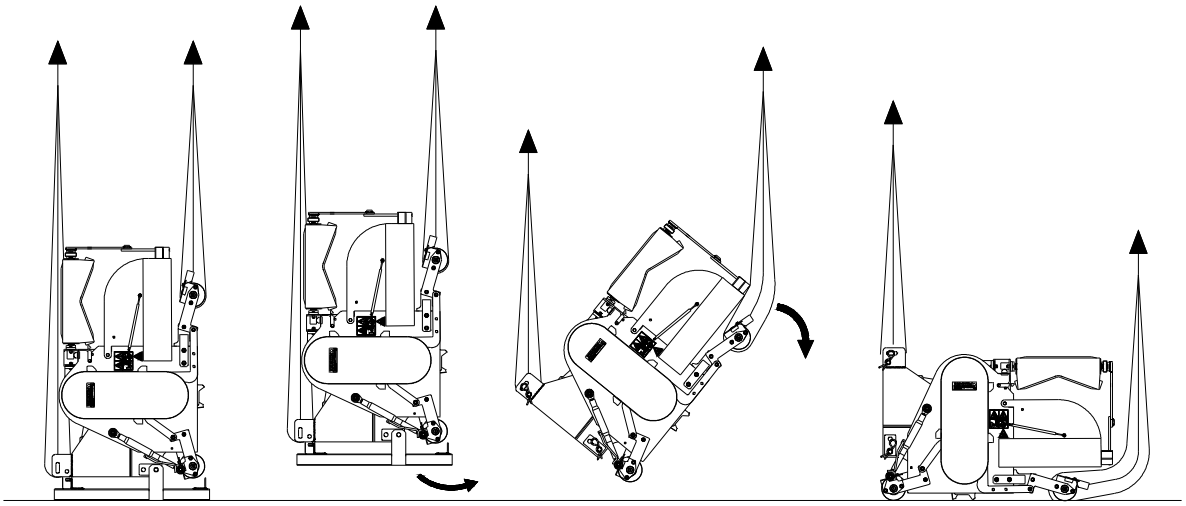
4. Slowly lower the machine until it touches the ground.

   ⚠ **Attention: the machine can swing dangerously!**

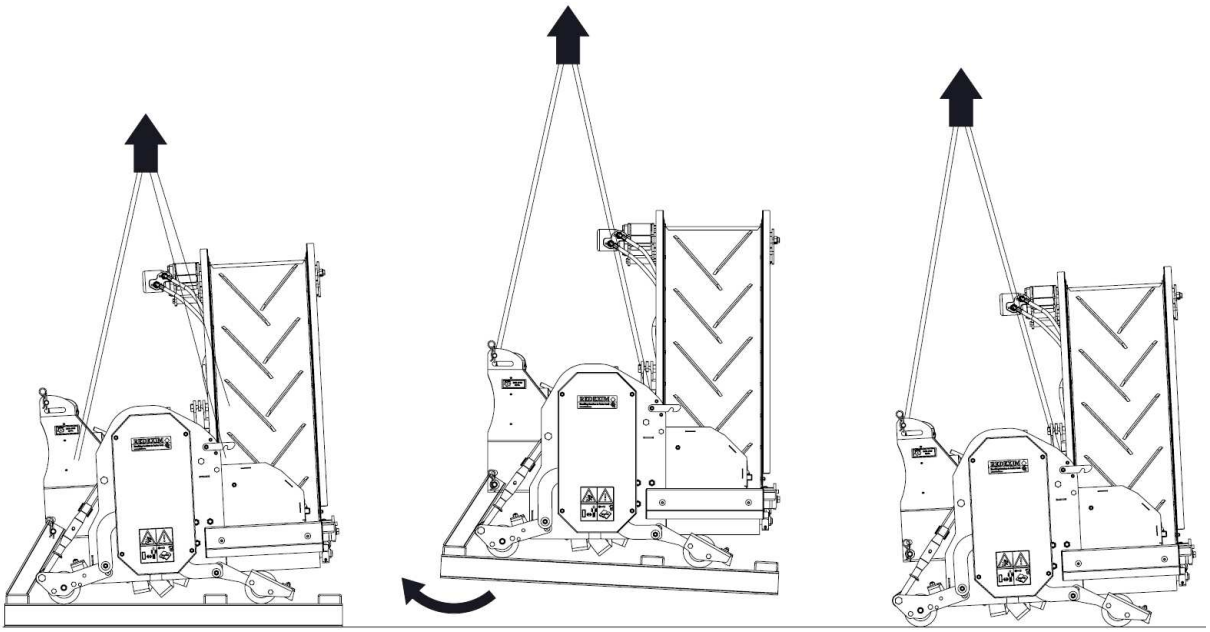
5. Attach the machine to a tractor. (See Chapter 4.0 for instructions about attaching to the tractor.)

   ⚠ **Use the proper tractor (please refer to the specifications).**

   ⚠ **Turn off the tractor and secure the tractor/Turf-Stripper combination against driving off and/or sliding off.**



TS 2000 Fig. 8



TS 1200 Fig. 8b

4.0 ATTACHING THE MACHINE TO THE TRACTOR

Checking procedure before starting to attach the Turf-Stripper.

- Check the Turf-Stripper for visually discernable damage and repair this if safe operation of the machine is no longer guaranteed.
- Check whether all the nuts and bolts are tight.
- Check whether all safety stickers are present on the machine and are not damaged.
  NEVER use the machine without these items.

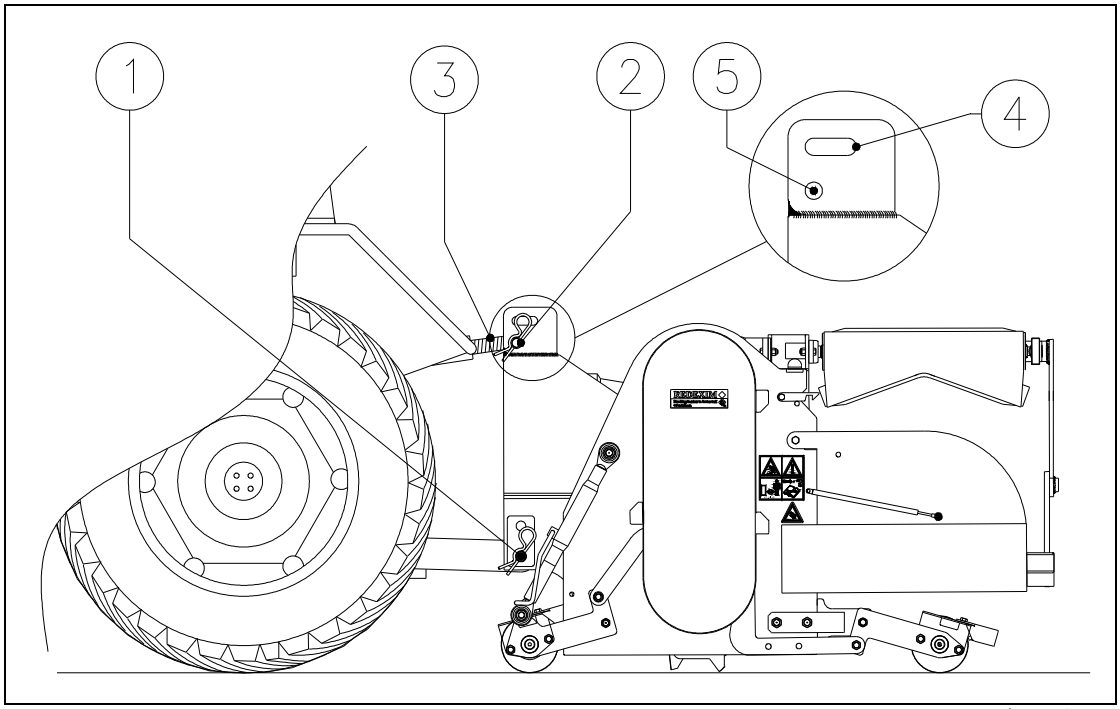


Figure 9

(Shown version: TS 2000, principal is the same with the TS 1200).

The Turf-Stripper can be attached to the tractor by means of the 3-point attachment.

The procedure is as follows (Figure 9):

1. Remove **the** 3-point pins (1 and 2).
2. Drive the tractor carefully backwards so that the lower connecting arms can be attached to the frame.
   ⚠ **Make sure that the tractor is blocked well and cannot move on its own accord!**
   ⚠ **Switch off the tractor before descending!**
3. Connect the lower connecting arms to the 3-point connecting plates using **the** pins (1) and secure these with the supplied locking pins.
4. Set the stabilizer of the tractor to 100 mm lateral stroke.
5. Connect the top rod (3) to the frame with the pin (2); secure the pin (2) with the supplied locking pin.
   ⚠ **Use Float Position 4 for towing while operating the Turf-Stripper and Fixed Position 5 for transport!**
   ⚠ **Make sure that all the securing pins are locked!**
6. Turn the top rod (3) until the Turf-Stripper stands horizontally on the ground.
7. Attach the PTO to the Turf-Stripper at the slip coupling side.
8. Attach the hydraulic hoses of the Turf-Stripper to the tractor.
9. Start the tractor and lift the Turf-Stripper off the subsoil.

5.0 THE POWER TAKE-OFF (PTO)

The PTO is a very important component. It also takes care of safe use of the machine, provided it is installed and maintained in the correct manner. The PTO has its own CE certification. Read the PTO manual. This manual is located on the PTO.

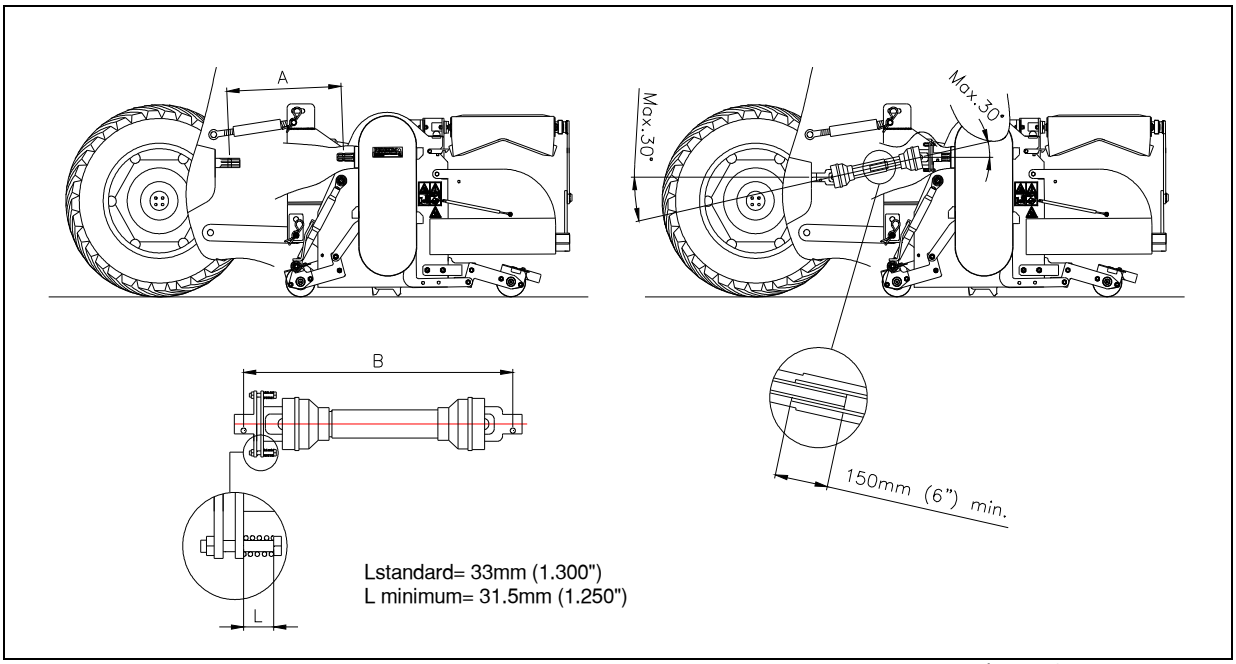


Figure 10

(Shown version: TS 2000, principal is the same with the TS 1200).

5.1 LENGTH OF THE PTO

The length of the PTO is very important. If it is too long, it can damage the drive of the tractor and/or the Turf-Stripper. If the overlapping length of the cylinders becomes less than 150 mm (6″) at any time, it can damage the PTO.

⚠ **The length changes when the machine is lifted or when a different tractor is used!**

In order to set the PTO to the correct length, when a new one has been purchased or when a different tractor is used, follow these steps (see Figure 9):

1. Measure the distance between the PTO's connection to the tractor and to the Turf-Stripper, from groove to groove, when the machine is connected to the tractor and positioned on the ground at the right angle.
2. Measure the distance B of the PTO in its shortest position from the locking pin to the locking bolt.
3. Divide the PTO in two parts and remove the protection cap at both ends.
4. The ends of the cylinders and the ends of the protection caps must be made shorter: (B-A) + 75 mm (3").
5. Smooth off all components, use some grease, and then assemble all components.
6. Mount the PTO with the slip coupling at the Turf-Stripper side.

   ⚠ **The torque of the locking bolt must be 80 Nm (700 lb.in.) and should be checked every 40 hours.**
7. Attach the other end of the PTO to the tractor.
8. Check the overlap of the cylinders.

⚠ **Never use the machine if it has a damaged PTO protection cap. First replace any damaged parts!**

5.2 USING THE PTO

The following items must be checked for correct use of the PTO:

1. While working the angle of the pivot pins may not exceed 30 degrees.
2. The pivot pins must always be aligned.
3. The overlap of the cylinders must always be minimum 150 mm.
4. Never use the machine if it has a damaged PTO protection cap.
5. For lubrication, please refer to Chapter 12.0 ‘Maintenance’.

5.3 SLIP COUPLING INFORMATION AND MAINTENANCE

If used and maintained correctly, the slip coupling will protect your machine against damage. The following items are important:

1. The length of the spring is standard set at 33 mm (1.3”)
2. Whenever the slip coupling slips, the bolts/nuts can be tightened a quarter of a turn until you achieve a minimum length of 31.5 mm (1.25”) of the spring. Additional compression will overload the machine.

   ⚠ **Screwing the bolts/nuts too tight could ultimately damage the machine or create unsafe situations.**
3. The slip coupling must be maintained on a monthly basis. Follow the following steps:
   - Disconnect the top PTO protection cap from the machine.
   - Loosen up all the bolts/nuts by 2 turns.
   - On the field let the machine run at very low revs.
   - If the coupling slips, stop the motor after 10 seconds.
   - If the coupling does not slip, loosen up the bolts further or proceed with the maintenance / annual maintenance task (see point 4 below).
   - As soon as the coupling has slipped, screw the bolts/nuts tight until you see that the slip coupling is once again functioning properly.

   ⚠ **Do not turn it back again to the previous setting.**
4. Annual maintenance:
   - Disconnect the PTO from the machine.
   - Inspect all the components of the PTO.
   - All the damaged components should be replaced.
   - Take the slip coupling apart by removing all the bolts and nuts that fasten the springs to each other; the slip coupling should then simply fall apart.
   - Lay down all the components and look at them meticulously. If components are damaged or worn out, replace them.
   - Clean all interlocking components.
   - Re-assemble all the components and tighten the bolts and nuts so that the springs are adjusted to 33 mm (1.3”).
   - Grease both cylinders and reassemble both PTO parts.
   - Assemble the PTO and mount it on the machine.

- In needed, adjust the springs of the slip coupling as described below.

⚠ **If adjusted properly, the slip coupling protects the machine only against momentary overload. Long-term overload will damage the machine. In such cases the slip coupling cannot protect the machine. Do not overload your machine.**

6.0 ADJUSTING THE WORKING DEPTH

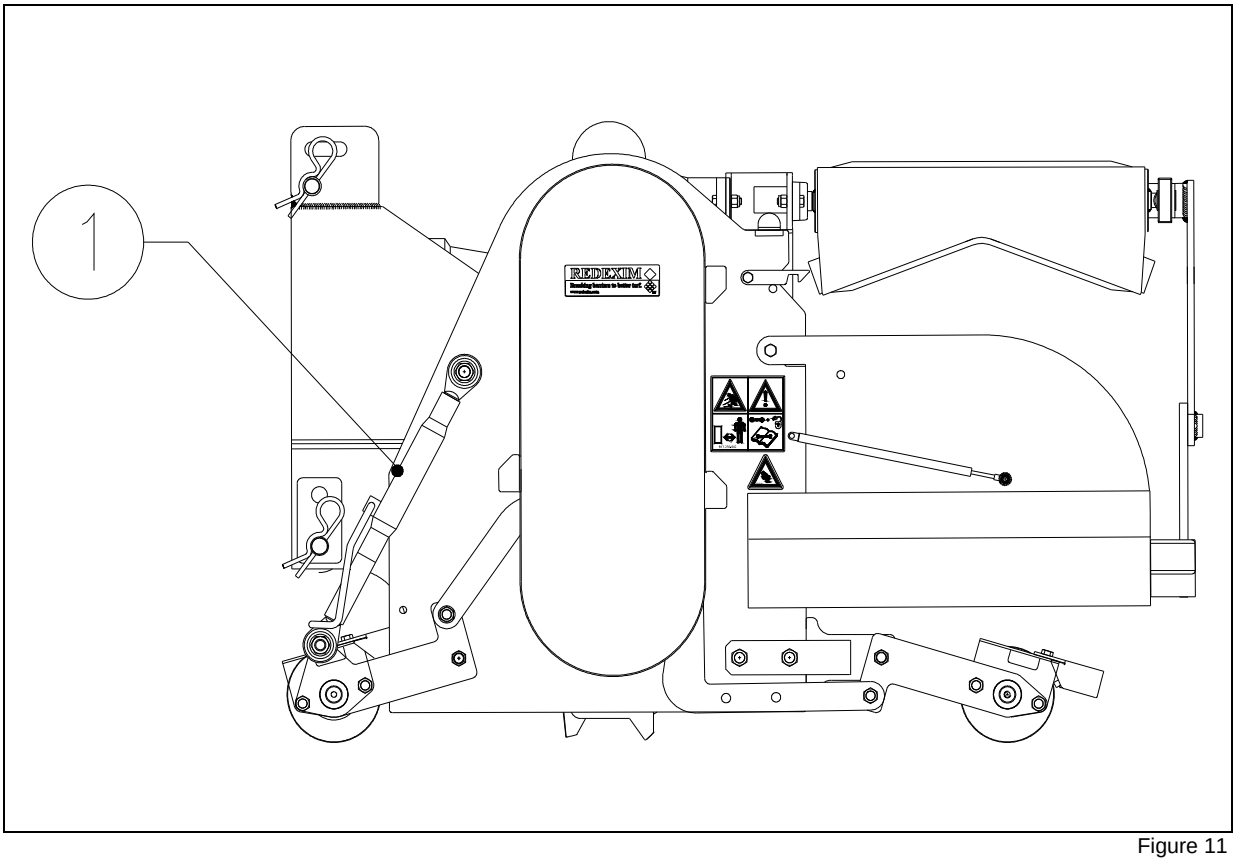


Figure 11

(Shown version: TS 2000, principal is the same with the TS 1200).

The working depth is adjusted by setting the front and rear rollers simultaneously.

The two spindles at both sides of the machine (see Figure 11) set the rollers.

☞ If the transport belt is folded out, the machine weight shifts to this side. As a result, more material can be removed at this side. You can compensate this by setting the machine not so deep at this side.

7.0 TRANSPORTING THE TURF-STRIPPER

The user is responsible for transporting the Turf-Stripper in back of the tractor over public roads. Verify the national legislation regarding the regulations.
On open fields while the machine is raised and if circumstances allow this, the maximum permitted speed is 12 km/h (8 mph) due to the weight of the Turf-Stripper.
A higher speed can be dangerous for the driver and/or the public and can even damage the machine.

⚠ **Make sure that the uppermost top rod is attached and is pressurized in the transport position (position 5)! See Chapter 4.0, figure 9. If this is not done, the machine can incur serious damage.**

⚠ **Attention: the transport belt has to be tipped up!**

⚠ **When the machine is raised off the ground, the front axle of the tractor has to support minimum 20% of its weight.**

8.0 DRIVING SPEED

The driving speed depends on the conditions and the required result. It is maximum 3 km/h (1.8 mph).
It is NOT recommended to drive faster due to the fact that excessive wear & tear and damage can occur to the machine and to the subsoil.

9.0 USING THE TURF-STRIPPER

Before using the Turf-Stripper in a location, you should check the following items:

1. Are there loose objects in the field? First remove these objects.
2. Are there slopes? The maximum slope is 20 degrees for this machine.
3. Always go from top to bottom.
4. Is there danger of flying objects (e.g., balls) that distract the attention of the driver? If so, the Turf-Stripper **CANNOT** be used.
5. Is there danger of sinking/sliding away? If so, postpone the processing until conditions improve.
6. Are there hard objects in the ground? If so, use the Turf-Stripper with a low PTO speed and adjust the working depth.
7. If the soil is very wet, postpone the activities until conditions improve.

10.0 START/STOP PROCEDURE

The start procedure is **VERY** important. If this procedure is not executed as described below, it might result in serious damage to the machine.

The start procedure is as follows:

1. Check the Turf-Stripper for loose components and look whether all components function properly.
   ⚠ **If loose components are observed or components do not function properly, the problems must be solved *before* using the Turf-Stripper!**
2. Drive to the spot where the processing should take place.
   ⚠ **Attention: the transport belt has to be tipped up!**
3. Lower the machine onto the ground.
4. Fold the transport belt out by activating the hydraulic outlet of the tractor.
   ⚠ **Make sure that the tractor is blocked well and cannot move on its own accord!**
   ⚠ **Switch off the tractor before descending!**
5. Adjust the working depth as described in Chapter 6.0.
6. If required, the top rod can be placed in the slotted hole (4) in the towing position (see Chapter 4.0, figure 9).
7. Raise the Turf-Stripper slightly so that the knives just don't touch the ground and engage the tractor in the proper gear.
8. Activate the hydraulic outlet of the tractor in order to let the transport belts turn.
9. Adjust the tractor engine to around 1200 rpm and switch on the PTO.
10. Slowly lower the machine until it reaches the required working depth.
11. Drive forwards and increase the rotational speed until the PTO rotational speed of 540 rpm is achieved.
12. For the first track:
    Check whether the required working depth is achieved. If necessary, adjust the working depth as described in Chapter 6.0.

Stopping occurs as follows:

1. Decrease the engine revs to approx. 1200 rpm.
2. Lift the machine slightly off the ground.
3. Switch the PTO off as soon as the knives no longer touch the subsoil.
4. Close the hydraulic outlet of the tractor (used for operating the transport belts).
5. Fold the transport belt in by activating the hydraulic outlet of the tractor.
6. Lift the machine even more.
7. Go to the next location and start again as described above.

11.0 DETACHING THE TURF-STRIPPER

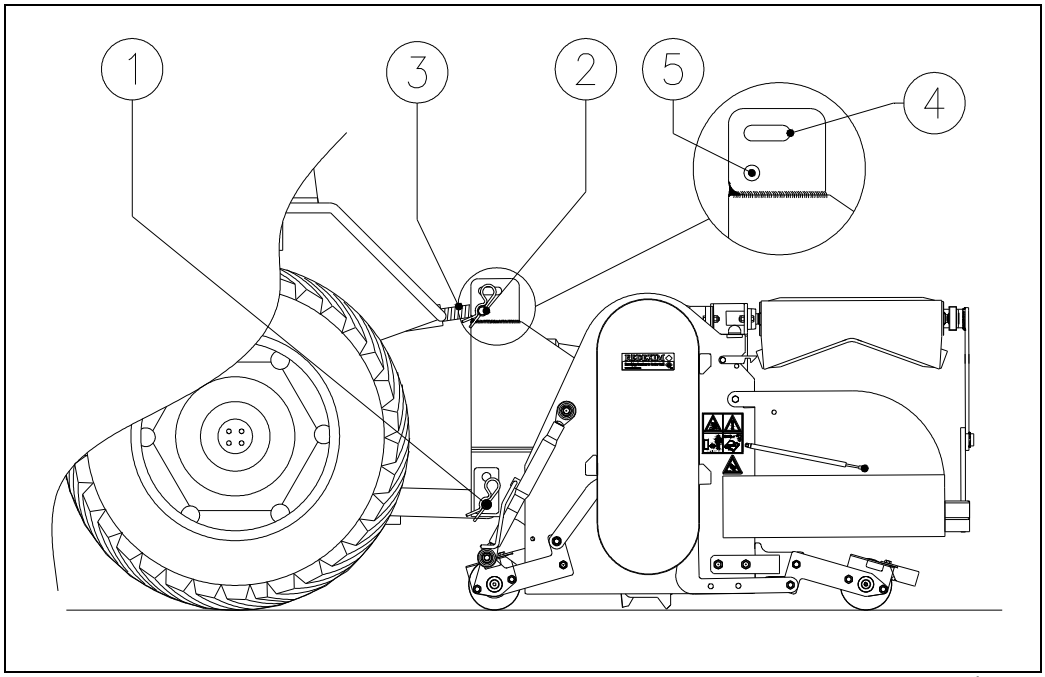


Figure 12

(Shown version: TS 2000, principal is the same with the TS 1200).

The machine can be detached from the tractor in the following manner (See Figure 12):

1. Drive the Turf-Stripper to a parking area with a firm/flat surface.
   ⚠ **Make sure that the tractor is blocked well and cannot move on its own accord!**
   ⚠ **Switch off the tractor before descending!**
   ⚠ **Attention: the transport belt has to be tipped up!**
2. Adjust the height of the rollers so that the machine stands above the ground (see Chapter 6.0).
3. Lower the machine onto the ground.
4. Make sure that the machine cannot move on its own accord by blocking the rear roller.
5. Remove the hydraulic hoses.
6. Remove the top rod (3).
7. Loosen the PTO at the side of the tractor.
8. Disconnect the lower connecting arms of the tractor.
   ⚠ **Make sure that the Turf-Stripper stands stable and cannot roll away and/or slide off!**
9. Start the tractor and drive off.

12.0 TROUBLE SHOOTING (PROBLEM ANALYSIS)

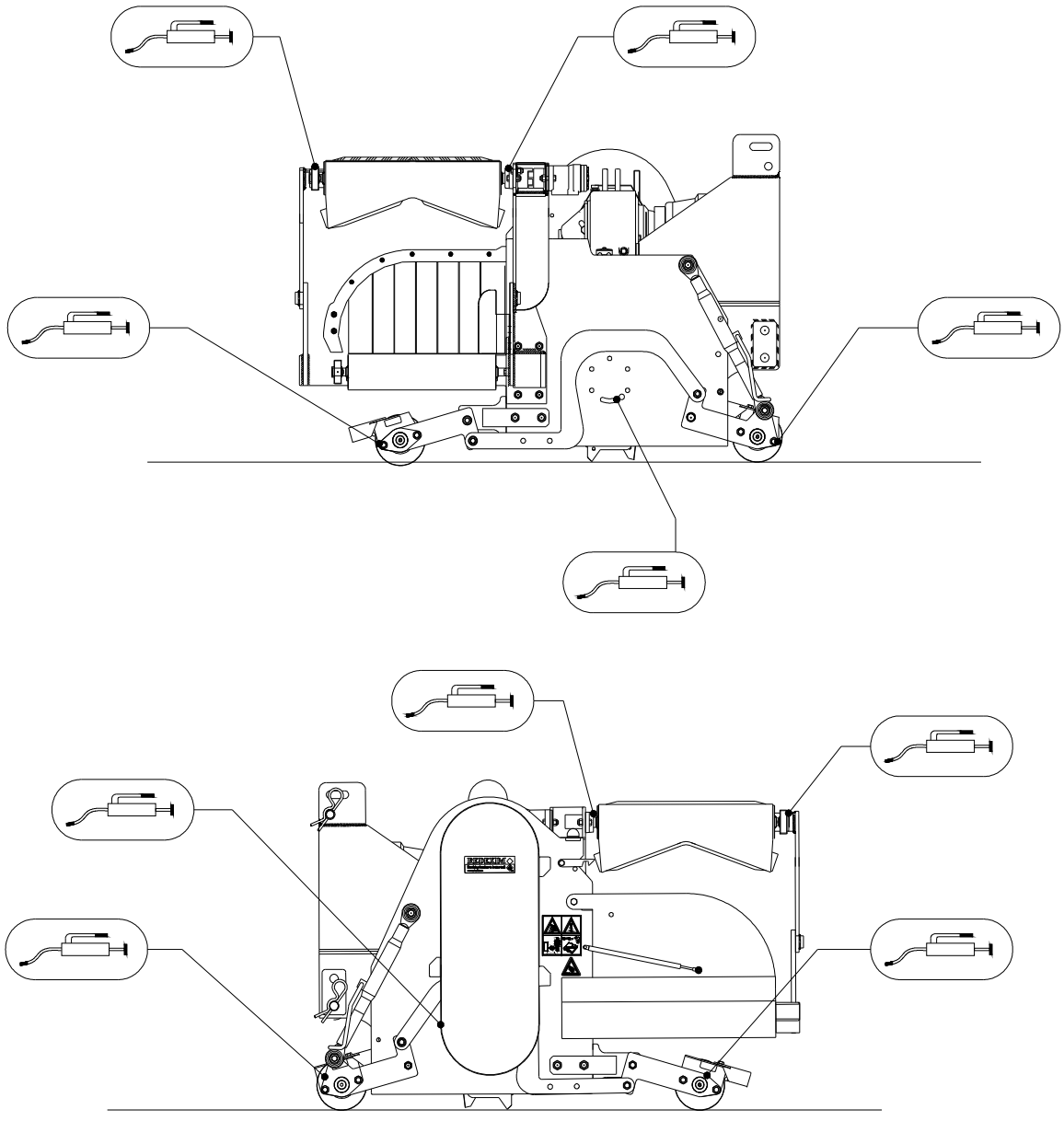
Problem	Possible cause	Solution
Machine vibrates.	- Obstacle(s) between the knives - Worn or broken knives. - Rotor is bent.	- Remove the obstacle(s). - Replace with new knives. - Replace the rotor.
Working depth is not achieved.	- Working depth is not adjusted correctly. - Subsoil is too hard. - Driving speed is too high.	- Adjust the working depth properly. - Lower the driving speed or pass over the soil more than once. - Lower the driving speed.
Too coarse processing of the soil	- Driving speed is too high. - Subsoil is too wet.	- Decrease the driving speed. - Wait for better conditions.
Rotor is jammed.	- Subsoil is too wet. - Obstacle(s) between the knives - Driving speed is too high. - Too much overgrowth	- Wait for better conditions. - Remove the obstacle(s). - Decrease the driving speed. - Cut the overgrowth.
Rotor does not turn.	- The V-belts that drive the rotor slip. - Machine is adjusted too deep.	- Pull the V-belts taut. - Adjust the machine to less depth.
Transport belt cannot cope with the quantity of material.	- Driving speed is too high. - Transport belt turns too slowly. - Working depth is too deep.	- Lower the driving speed. - Increase the oil flow of the tractor. - Decrease the working depth.

13.0 MAINTENANCE

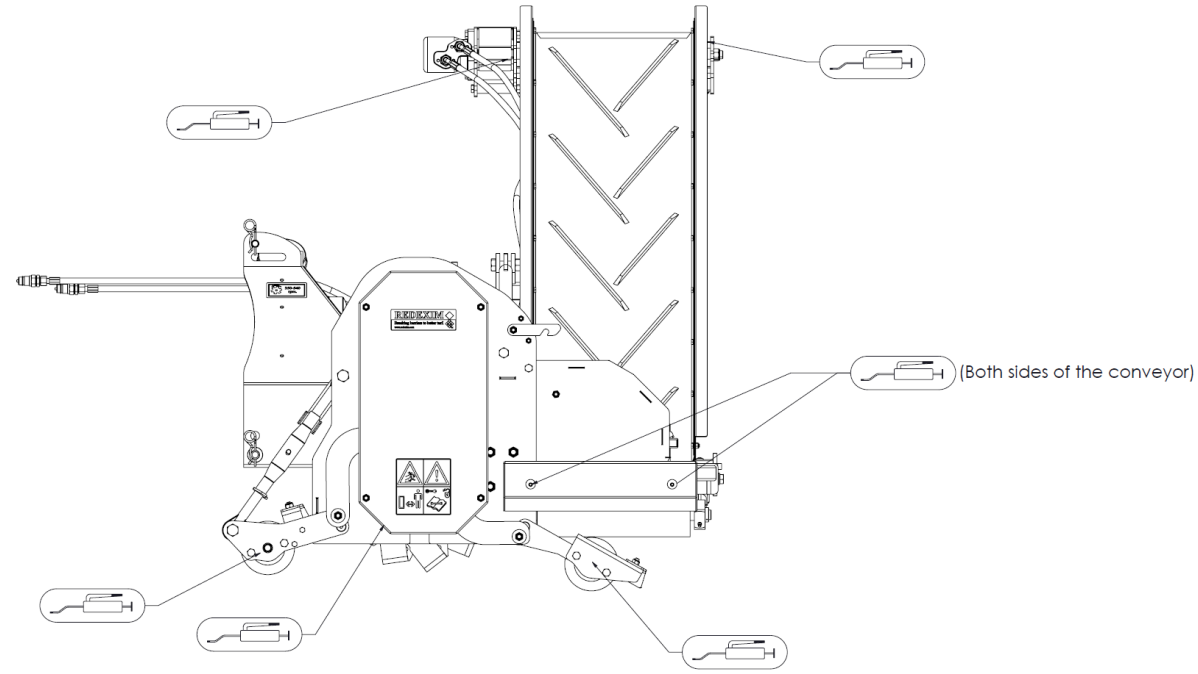
Time schedule	Check/Grease point	Method
Before **every** use	- Check for loose bolts/nuts. - Check the oil level in the gearbox. - Presence and readability of the safety stickers - Loose hanging parts around the PTO - Check for hydraulic defects. - Check for cracks/defects in the transport belts.	- Tighten loose bolts/nuts with the correct tightening moment. - Use SAE140. - Replace these if not present or damaged. - Tighten the parts so that they cannot reach the PTO. - Repair or replace, if needed. - Repair or replace, if needed.
After **every** use	- Clean the machine. - Grease the rotor bearings.	- Watch out for the bearings if a high-pressure sprayer is used. - 1 shot EP2 (see Figure13)
After the **first** 20 working hours (new or repaired)	- Lubricate the PTO and bearings. - Check for loose bolts/nuts. - Check the oil level in the gearbox. - Check the gearbox for oil leakage. - Loose hanging parts around the PTO - Check the tension of the V-belts.	- Use EP2 grease - Tighten loose bolts/nuts with the correct tightening moment. - Use SAE140. - Repair the leaks/damaged parts. - Replace the seals/sealing paste. - Tighten the parts so that they cannot reach the PTO. - If needed, adjust the tension (see Section 13.2).
After **every** 50 working hours	- Lubricate the PTO and bearings of the machine. - Check for loose bolts/nuts. - Check the oil level in the gearbox. It has to reach at least the halfway mark of the gauge. - Check the gearbox for oil leakage. - Loose hanging parts around the PTO - Check the tension of the V-belts.	- Use EP2 grease (see Figure 13) - Tighten loose bolts/nuts with the correct tightening moment. - Use SAE140. - Repair the leaks/damaged parts. - Replace the seals/sealing paste. - Tighten the parts so that they cannot reach the PTO. - If needed, adjust the tension (see Section 13.2).
After **every** 500 working hours	- Change the oil in the gearbox.	- Use SAE140.

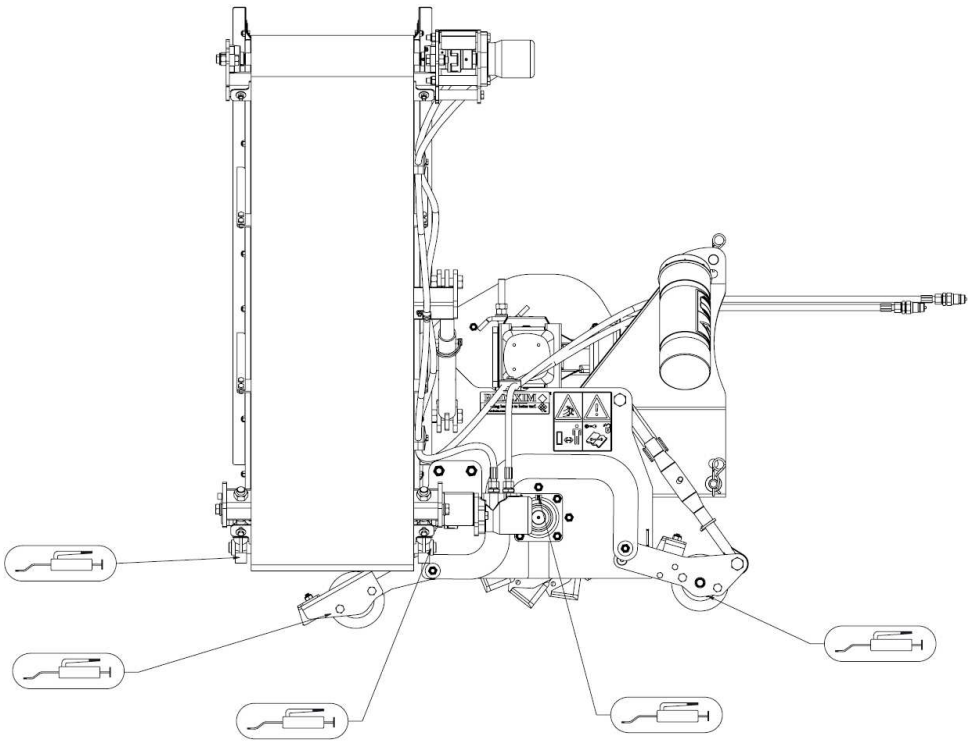
13.1 LUBRICATING POINTS

Turf-Stripper 1200



TS 2000 Figure 13





TS 1200 Fig. 13b

13.2 ADJUSTING THE TENSION OF THE V-BELTS

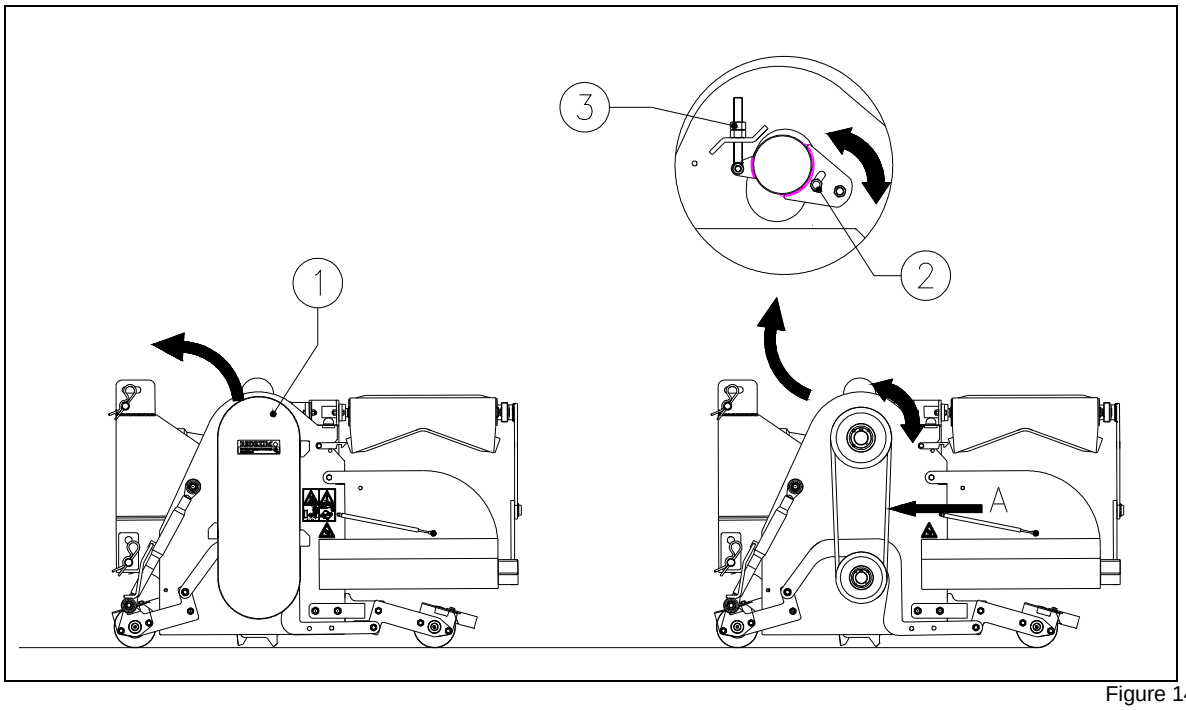


Figure 14

(Shown version: TS 2000, principal is the same with the TS 1200).

The Turf-Stripper is standard equipped with adjustable tension pulleys that keep the V-belts taut. Depending on the intensity of using the machine, the driveline could be affected by wear and tear. These V-belts should then be tightened.

Adjustment is carried out as follows (see Figure 14):

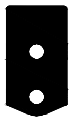
⚠ **Make sure that the Turf-Stripper is blocked well and cannot move on its own accord!**

⚠ **Make sure that the PTO is detached from the Turf-Stripper!**

1. Remove the safety guard (1).
2. Loosen the lock nut (3).
3. Loosen the nuts (2) one turn so that the tensioning device can rotate (both sides of the bearing bridge).
4. Adjust the lock nut (3) and use it to adjust the tension of the V-belts.
5. Check the tension of the V-belt by pushing point A with a pressure of 7.5 kg (16.5 lbs). The stretch should be 12.4 mm (0.5”) per V-belt.
6. Tighten the lock nut (3).
7. Tighten the nuts (2) at both sides of the bearing bridge.
8. Put the safety guard back in its place.

14.0 OPTIONAL: SCARIFY KNIVES

The Turf-Stripper is standard equipped with cutting knives but it can also be equipped with Scarify knives (if required) for aerating the subsoil.
Placing the knives in specific positions, the slot distance can be set to the following measurements (see Figure 15):

<table>
<tr><td colspan="2">20mm (0.78") spacing (TS1200)
25mm (1") spacing (TS2000)</td><td colspan="2" rowspan="4"> 
Balance weight

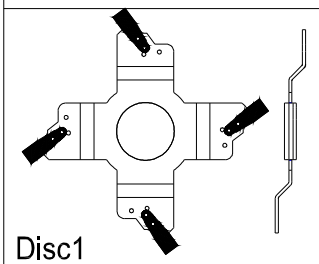
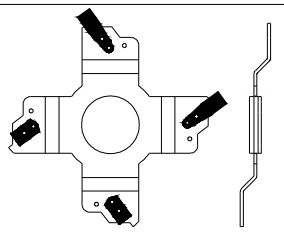
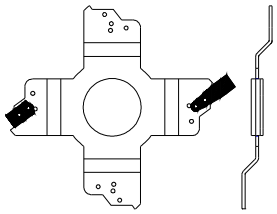
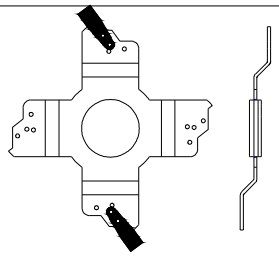
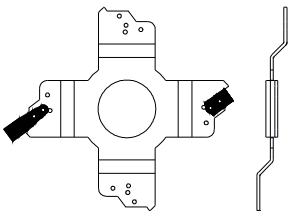
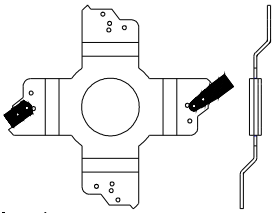
Scarify blade</td></tr>
<tr><td> 
Disc1</td><td>Continue as disc 1</td></tr>
<tr><td colspan="2">40mm (1.57") spacing (TS1200)
50mm (2") spacing (TS2000)</td></tr>
<tr><td> 
Disc1</td><td>Continue as disc 1</td></tr>
<tr><td colspan="2">60mm (2.36") spacing (TS1200)
75mm (3") spacing (TS2000)</td><td rowspan="2">  </td><td rowspan="2"></td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>Disc1</td><td>Disc2</td><td>Disc3</td><td>Continue as disc 1</td></tr>
<tr><td colspan="4">80mm (3.15") spacing (TS1200)
100mm (4") spacing (TS2000)</td></tr>
<tr><td> 
Disc1</td><td colspan="3">Continue as disc 1</td></tr>
</table>

Figure 15

For the number of knives and balance weights, see the spare parts section in the back of this manual.